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CITY PLANNING

A COMPREHENSIVE ANALYSIS OF THE SUBJECT ARRANGED FOR THE CLASSIFICATION OF BOOKS, PLANS, PHOTOGRAPHS, NOTES AND OTHER COLLECTED MATERIAL

WITH ALPHABETIC SUBJECT INDEX

BY

JAMES STURGIS PRAY

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Annex

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PREFACE

DEFINITION OF THE FIELD OF CITY PLANNING

The term City Planning is used to signify "the intelligent control and guidance of the physical conformation, growth, and alteration of cities, towns, or considerable parts thereof, considered in their entirety";[1] or, more briefly, the organization of the physical city, town, or district to fit it to its complex use. It includes the planning of towns, suburbs, villages, and any considerable urban, suburban, or even intimately related rural districts. Material other than that embraced under the above definition is included in this outline only when the subject-matter is treated or considered as having a definite relation to the city plan or its elements. For the purposes of this classification, planning includes re-planning, and the two are regarded as virtually synonymous. Current usage sanctions three different meanings for the phrase city plan: first, the form of organization scheme, conception—purely subjective; second, the drawings, graphic expressions of this conception; third, the physical city resulting from the carrying out of this conception, the scheme realized; these two latter uses being strictly objective. We use the phrase in only the first of these senses, the subjective — the scheme or form of organization.

USEFULNESS OF THE CLASSIFICATION

That all the topics here included have been found necessary in order adequately to care for the arrangement of the ideas now current in city planning — whether expressed in literal or graphic language — is an impressive indication of not only the present magnitude of the subject of City Planning itself, but also the volume of thought already on record within this field. So far as we know, this is the first comprehensive, systematic setting forth of the scope and

[1] Professor Frederick Law Olmsted, Chairman of the National Conference on City Planning.

varied character of this field to such a scale. Yet, so clearly have the relations and scopes of the principal divisions here made of the subject now established themselves, and so far have we been dominantly influenced in choosing for main heads and subheads units of area and the objects upon them distinguished by function, that we believe no radical reorganization of this field is ever likely to occur, and that this classification, which has been prepared with unusual care and had already the helpful criticism of many minds representing many parts of the field, can be adopted with unusual assurance as to its usefulness for an indefinite time to come. Certain parts of the classification must, of course, be expanded from time to time as the corresponding parts of the subject develop. The numbering of the scheme allows for this expansion.

The approach to city planning to-day is still from many directions. The number of these directions, will, as time passes, increase rather than diminish; but, from whatever related, contributory, or overlapping field one comes to city planning, one cannot hope to grasp the problem of the city plan as a whole or the true relation of one's special field to it without reference to some such comprehensive and systematic analysis, expressed or implied, as is here presented. Moreover, however the directions of approach and hence the points of view differ, the organization of the modern city for health, efficiency, and beauty — not to say economy — remains essentially the same, and therefore such a comprehensive classification should be useful alike to the municipal official, the business administrator, the civil engineer, the sanitary expert, the transportation engineer, the housing reformer, the architect, and the landscape architect, as well as the representative of any one of various other special services, in proportion as his occupation enters and contributes to the field of city planning; and the index will show him quickly at what points his special material is provided for. Thus, to all who are concerned with city planning the classification aims to be useful either for the classification of collected material, for the indication of relations between special parts of the whole field, or for a comprehensive presentation and systematic analysis of the

subject. In this last way, it is thought that the classification will be particularly useful to students of city planning in colleges and technical schools where the subject is to any extent taught.

There is much in the rapid spread of the city-planning movement to-day that is unintelligent, superficial, injurious to the best interests of those living and working in cities. It is hoped that such a comprehensive view and systematic handling as here given may help in some small measure to a more general rational conception of this vital field. However this may be, it is issued in response to a demand which has been expressed by practising city planners, city administrators, instructors and students, and librarians, as well as by professional men in the related fields already mentioned.

The very newness of city planning as an art, science, and profession renders the even development of a classification scheme impossible. Certain portions must be scarcely more than suggestive, but even here, in calling attention to the dearth of published material in particular sections of the subject, the classification scheme is useful in pointing out special fields of desirable research.

As the joint authorship of this city-planning classification implies, the principle has been recognized that, to be generally useful, any classification intended as this is to cover the arrangement both of ideas and of actual material, must be a compromise between a theoretical organization of the subject and an arrangement guided merely by existing material. If wholly the former, the classification will not be usable in libraries; while if based only on library needs, its services to those actively interested in city planning must be greatly diminished.

PRACTICAL APPLICATION OF THE CLASSIFICATION TO ARRANGEMENT OF EXISTING MATERIAL

The forms of material which might occur in a collection relating to city planning are: published literature, including books, pamphlets, reports, periodical articles, and clippings; graphic material, published or in original form, including maps, plans, drawings, photographs, plates, postcards, and

miscellaneous pictorial matter; manuscript material, including notes and bibliographical references. All these forms of material are represented in the Library of the School of Landscape Architecture at Harvard, for which this City-planning Scheme was originally developed. In fact, the Scheme originated and has been worked out directly in connection with the organization of the extensive and rapidly growing collections on city planning in this Library.

In preparing one outline of the subject to cover material in such diverse forms, it is obvious that certain sections will be developed to provide more particularly for published literature and certain others more particularly for graphic material. In fact on certain topics given in the outline, perhaps nothing has been *written* at all, although there may be many photographs. The development of the scheme, therefore, while considerably in advance of the literature of the subject in parts, is yet proportionate in consideration of the total material covered.

The proportions of the scheme have furthermore been affected by the necessity to represent various points of view as well as various physical entities, and by the desirability of suggesting various possible arrangements. For the same material may often be arranged in a number of different ways to serve different objects, as shown by the following illustration: a lot of postcards representing residential streets in various industrial cities might be classified either in 1675, Residential districts, or 2235, Residential streets, or 5320, Industrial cities, according to the way in which the owner of these cards would wish to consult them. If he had three copies of each, they could be arranged in all three places. Such duplication is seldom possible, and people have to be content with cross-references. Manuscript notes offer much the same possibilities of arrangement as the postcards just given as an illustration, and may be handled with a similar flexibility. The value of the classification for the arrangement of notes is very great to those interested professionally in city planning and constantly collecting data. In connection with the use of the classification for notes, it is suggested that by making a check mark in the printed index to the classification whenever a topic is looked up to find the

number to apply to the particular note in question, the user will have constantly an up-to-date index to the material he has already assembled. The use of the classification for arranging bibliographical references is also important. The authors have had continually in mind the use of this scheme for the arrangement of the extensive City-planning Bibliography in preparation by the School of Landscape Architecture in coöperation with the Library of Congress, of which a Check List appeared in the May, 1912, issue of the magazine "Special Libraries." As stated in the Prefatory Note, and also at the end of the Check List, where a summary tentative outline was offered, the Harvard City-planning Scheme has been officially adopted by the Library of Congress for the classification of titles in the City-planning Bibliography.

THIS CLASSIFICATION IN RELATION TO OTHER CLASSIFICATION SCHEMES

Library of Congress Classification

In looking about for a basis on which to construct a classification scheme for its special Library of Landscape Architecture, including City Planning, for which there was no adequate provision in any existing classification, the School of Landscape Architecture decided that it was wiser to choose one which could be related to some general scheme already worked out, that could care for whatever material in allied fields it should be desirable to have in the Library. Mr. Sidney Kimball, then Assistant in the School, made a study of existing classifications, on the basis of which the School decided to adopt the Library of Congress Classification, because it is comprehensive, generally known through the wide circulation of printed catalogue cards numbered according to it, and adapted in principle to serve as a basis for the arrangement of the special field of the Library. This principle is a combination of logical subdivision with convenient sequence, allowing a maximum of elasticity in development. Its simple sequential system of numbering was found easy to use in the Library, and convenient of application to the outline of the subject without forcing.

In correspondence with Mr. Charles Martel, then Chief Classifier of the Library of Congress, a place was assigned the subjects in the general Library of Congress scheme (in which no adequate provision for Landscape Architecture or City Planning existed) in Class N, Fine Arts. Landscape Architecture and City Planning were erected as independent sub-classes coördinate with and immediately following Architecture, numbered NA. As the sub-class designation NB was already in use, it was necessary to use a three-letter combination which would assume Architecture to be NA(A), Landscape Architecture NAB, and City Planning NAC. Although City Planning is not primarily a fine art its fundamental esthetic aspect and its close connection with the practice of Landscape Architecture and Architecture were considered to justify its position in class N.

If this City-planning Classification is to be used as a part of the general Library of Congress Classification Scheme — as it is used in the Library of the School of Landscape Architecture — only material included under City Planning in its stricter definition will be classed in NAC; all other material will go in the appropriate Library of Congress class, *e. g.*, Land and Housing, HD; Transportation, HE; Architecture, NA(A); Public Health, RA; Roads and Pavements, TE; Building Laws, TH. This City-planning Classification Scheme will however be used by many people technically interested in city planning who wish to use it as a complete basis of arrangement for all the material which they may collect on the whole subject, including affiliated fields. Provision has therefore been made in this Scheme as it now stands for such a use, in connection with material on affiliated fields, with a reference in the more important cases, to the Library of Congress class where a fuller subdivision of the subject may be found. Those who find this Scheme full enough as it is may disregard these references entirely. Those who wish to go further may consult the Library of Congress classes referred to, the indexes in the backs of the "Schedules" containing these classes, and also the alphabetical list of subject headings published by the Library of Congress.

Forthcoming Landscape Architecture Classification

It is of interest to note the relation to this City-planning Scheme of the Landscape Architecture Scheme (NAB) in preparation by Professor Henry V. Hubbard and Theodora Kimball, of which a brief summary and adaptation appeared in the January, 1913, issue of the quarterly "Landscape Architecture." This forthcoming scheme will contain carefully worked-out cross-references to the City-planning Scheme, and each might well contain material not proper to the other according to the point of view; as, for instance, in the case of Parks, which in the City-planning Scheme are treated primarily as unit areas of a city and in the Landscape Architecture Scheme primarily as landscape compositions.

Adaptations to Other Systems of Classification

There appears to be no reason why this outline of the subject of city planning, very much as it stands, should not be used in connection with other systems of classification in general use. For instance, at present the Dewey Decimal Classification contains no special provision for city planning. The New York State Library states that section 710 in that system is the place where a city-planning sub-class might be developed. The decimal system of numbering might be applied to the outline of this City-planning Classfication somewhat as follows: .01–.08 *Bibliography* through *Museums*, .11–.17 *Collected Works* through *General Special* (or these form headings could be rearranged to conform with general decimal classification practice); .2 *City-planning movement;* .3 *Legislation;* .4 *Methods of technical procedure;* .5 *Study and teaching;* .6 *Composition of city plans;* .7 *Elements of city plans;* .8 *Types of city plans;* .9 *Geographical arrangement.* The subheads would be similarly numbered in decimal fashion so that a paper on, for instance, the economic aspects of city planning, might have for its classification number 710.623; or again an article on suburban station grounds, 710.71333. Of course some adjustments would have to be made, but the authors believe that the outline, as *an outline of the subject*, could stand.

ORGANIZATION OF THIS CLASSIFICATION

Headings

It should be stated that the first series of main headings (see the Summary Outline) through 300, General special, have been selected from those in general use by the Library of Congress. They might be termed "form headings," since they refer particularly to the form in which the material appears, *e. g.*, a Periodical, a Dictionary. The phrase "General special" is used as a heading for material, which, though *general*, is not comprehensive but deals with some *special* phase of the general topic, *e. g.*, under the heading Conduits. Wires, the topic 2857, Relation to street maintenance, appears under General special. This heading has been used consistently throughout this scheme, sometimes with subheads, often alone, with a gap in the numbering to permit the insertion of future subheads if desired.

The second series of headings beginning with 500, City-planning movement, constitute a systematic subdivision of the field, adjusted to meet the demands of classifying material which, as physical objects, can stand in the files only in one place. Aspectual subdivisions, and provision for arrangement from different points of view, need not encumber the simplicity of the outline for use with graphic material representing objects alone. As has been stated earlier in this introduction, certain headings apply more to literature and certain others more to pictorial matter. Use of the topics will soon reveal this distinction. Certain subheads have been provided uniformly under all the principal elements; beyond this, an exact uniformity of phrase under all subheads has not been sought: it has seemed better to use whatever phrases were most expressive in the given instance.

However, as far as possible, corresponding parts of the outline itself have been constructed as uniformly as possible, to offer mnemonic advantage, for instance, under Vegetation, Special uses (4870), the topics have been arranged in the same order as the large headings under Elements.

In order to present the subject clearly, each major sub-

division of the outline is developed to a certain proportion, even if the subheads are given only as cross-references, *e. g.*, Squares, 4400. In minor cases, however, only typical topics have been given under a heading, often in order to make clear the kind of material which should be classified there. These type subheads have been generally chosen because they represented actual existing material, *e. g.*, 1246, to cover a couple of recent magazine articles on the influence of aviation on the planning for total effect of the city as seen from above. Gaps have been left in the numbering for the insertion of similar subheads.

In arranging a series of subheads, a coherent sequence has been preferred to an alphabetic arrangement, on account of the advantage gained for pictorial material, as shown by section 3820+, Minor structures. In general, the sequence of the actual material as arranged by this scheme has been carefully considered.

Numbering

The numbering of the Scheme requires some explanation. The system is that employed by the Library of Congress, a sequence of simple cardinal numbers, with gaps left between the numbers assigned the topics given, in order to allow for the insertion of new topics. Further expansion may be provided for by the use of decimals, as in Library of Congress Class HD, section 9000+. The numbering of the City-planning Scheme has been done loosely, since the subject is growing so rapidly, and may develop at an unexpected point or in an unexpected way. Several hundred numbers have been left open to provide for such emergency. In classifying material in a library using the Library of Congress Classification, the numbers of the outline would be preceded by NAC, the general class designation for city planning. For a collection wholly on city planning and using only this scheme, NAC need not be used, since the numerical designation is sufficient. In a collection using the forthcoming Landscape Architecture Scheme (NAB) and this scheme (NAC), B might be used for Landscape Architecture and C for City Planning, or whatever mnemonic device the owner preferred.

Indentation

It has not been possible to express exact coördination and subordination of heads and subheads by the indentation. Often importance or bulk of material has pulled a logically subordinate topic into a more important place. Furthermore, indentation by exact logical arrangement would make many of the headings too far to the right of the page for convenient printing; and the insertion of headings to show theoretical relations, where not necessary for clearness, would render the outline clumsy for use in classifying material.

Explanatory Notes

Notes have been given throughout the scheme explaining the meaning of a heading and what material should be classified under it, wherever the authors felt these points were not self-evident.

Cross-references

Cross-references have been freely made between headings containing related material and further to call attention to headings under which the same material might be arranged from different points of view. In making these cross-references, where there has been no doubt as to the connection, the number referred to has alone been given without the corresponding heading. In doubtful cases, the heading referred to has been given in addition to the numerical reference. The authors do not feel that it was advisable to give referred-to headings except in doubtful cases, on account of the great increase in bulk which the headings for the very large number of cross-references would have caused. In making the numerical cross-reference to a topic, the initial number only has been used, followed by a plus sign (*e. g.*, 4300+) if the topic occupies more than one number. Throughout the scheme the numbers and topics given in curves followed by a reference to some other number show where material might be classified if desired for some special purpose, but where the authors do not think it as well placed from a general point of view as under the number referred to. The Index may be used to supplement cross-references in the text.

Summary Outline

Besides the full Classification Scheme, the authors have included a Summary Outline, consisting of the main heads and subheads. This Summary serves to show the general construction of the Scheme, and also as a briefer basis for arrangement of material where there is only a small collection, or a collection developed at some one point, for which section alone the fuller scheme would be necessary. The topics given in the Summary Outline are printed in capitals in the full scheme, both for emphasis and to facilitate reference from the Summary to the Scheme itself.

Geographical Table

The Geographical Table given with this Classification was taken substantially from that included in Library of Congress Class N, called Table II. It is here numbered to use for the section City Planning, by special countries and cities. The same numbers (1–184) in the same relation, or these numbers as decimals, can be used at other points in the scheme where a geographical subdivision is desired. Appended to the Geographical Table is a careful explanation of the possible subarrangement of material under individual countries and cities.

Index

The alphabetic subject Index to this Classification has been made exceptionally full. The text of the Scheme has been indexed to bring out catch-words in many cases, as well as subjects, for the convenience of the person who remembers a word, phrase, or special form of heading and wishes to find it again. As few as possible "see" references have been made in the index: the numerical reference has been given for each significant word of a phrase, instead of a cross-reference (*e. g.*, Street name-plates, Name-plates, Street), unless there are subdivisions under the topic, in which case a "see" reference has had to be made to avoid excessive duplication in printing. The "see" references in the Index consist mostly of phrases not used in the Classification which might possibly be looked for in the index and under which reference is given to the sections in this Scheme relating to

the subject. A word or phrase in curves, *e. g.*, Soil (Data), is given in many cases after an entry in the index to explain its bearing. It has been the intention of the authors that the Index shall be of the greatest possible service to users of the Classification, and all the means which have presented themselves have been employed to accomplish this object.

PUBLICATION OF PRELIMINARY OUTLINE

In May, 1913, when the classification was approaching completion, a Preliminary Outline was issued (Printed as Manuscript), in order to invite suggestion and criticism, before the full Scheme should be fixed in final form. This Outline contained merely the main headings, together with some indication of the material included thereunder, without numbers or index. The Outline was circulated widely both among librarians and among those professionally interested in the subject of City Planning, particularly members of the National Conference on City Planning, whose technical comment was awaited with interest. Meantime the authors had themselves been developing the fuller scheme to a point considerably beyond that represented by the published Preliminary Outline. Among the large number of acknowledgments and appreciations received from those to whom copies of the Outline were sent, very few contained constructive criticisms. Those suggestions and criticisms which were made were carefully considered and in every case acted upon.

ACKNOWLEDGMENTS

Professor Frederick Law Olmsted, Chairman of the National Conference on City Planning, who had been interested in the Scheme from its beginning and who had already given constructive suggestions, considered the Preliminary Outline and suggested valuable improvements, particularly in the sections relating to Data for City Planning, which now stand practically in accordance with the subdivisions he made in his address on the subject before the City-planning Conference, May, 1913. Mr. Flavel Shurtleff, Secretary of the Conference, who is making a special study of the legal aspects of city planning, made valuable suggestions for the

section Legislation while the Outline was in manuscript. Professor Charles W. Killam of the School of Architecture at Harvard is responsible for the classification under Types of Building Construction as it now appears. Among others, Mr. John Nolen of Cambridge, Professor James Ford of the Department of Social Ethics at Harvard, and Professors Brix and Genzmer of the K. Technische Hochschule, Berlin, have made suggestive comments. Mr. H. H. B. Meyer, Chief Bibliographer of the Library of Congress, whose connection with the forthcoming City-planning Bibliography gives him a particular interest in the Scheme, and who had approved it in its early stages for the arrangement of the Bibliography, also made several very valuable suggestions, which were incorporated.

Besides grateful acknowledgment to those already mentioned, the authors desire to make special acknowledgment to the following persons: to Mr. Sidney Fiske Kimball, then Assistant in the School of Landscape Architecture at Harvard University and now Instructor in Architecture at the University of Michigan, for the use of his draft for a tentative outline of classification for use in the School of Landscape Architecture Library, which made a most valuable basis for further development; to Mr. Charles Martel, then Chief Classifier and now Chief of the Catalogue Division of the Library of Congress, for his consideration of the scheme, in its early stages, in personal conference in March, 1912, and for his interpretation of the principles of the Library of Congress Classification as applying to this field; to Professor Henry V. Hubbard, of the School of Landscape Architecture at Harvard University for constructive thought and unstinted assistance in the development of the scheme throughout the undertaking.

James Sturgis Pray,
Theodora Kimball.

Cambridge, Mass.,
November, 1913.

CITY-PLANNING CLASSIFICATION

SUMMARY OUTLINE

If used in connection with Library of Congress Classification, prefix NAC to numbers.

0 Bibliography.
(1) Periodicals.
15 Yearbooks.
(20) Societies.
(40) Congresses. Conferences. Conventions.
(50) Exhibitions.
(70) Museums.
180 Collected works.
190 Encyclopedias, dictionaries, etc.
195 Directories.
200 Biography.
210 History.

250 General works.
300 General special.

500 City-planning movement.
510 Organization.
540 Education of public.
565 Action by community.
580 Special aspects.

700 Legislation.
705 Creative.
760 Regulative.
775 Special countries.

800 Methods of technical procedure. Professional practice.

815 Collection and presentation of data.

840 Design, economic and esthetic. Making of city plans.

850 Presentation of city plans.

860 Direction or supervision of construction and maintenance.

875 Consultation. Coöperation of experts.

880 Competitions.

900 Study and teaching.

910 Subject matter.

930 Methods.

960 Special countries.

980 Special schools.

Composition of city plans. Planning. Replanning.

1200 General. General theory and principles of design.

(1205) Special aspects.

1210 Social aspects.

1215 Hygienic aspects.

1225 Economic aspects.

1235 Esthetic aspects.

1270 Historic aspects.

1290 Other.

1300 Data. (Fundamental conditions, existent and predictable.)

1320 Climate, topography, soil, etc.

1400 Population. Social conditions.

1500 Legal and administrative conditions.

1545 Economic and financial conditions.

1600 Organization and subdivision of city area by dominant function. Districting. Districts.

1625 Administrative districts.

1630 Business districts. Industrial districts.

1675 Residential districts.

1715 Agricultural districts, etc.

Composition of city plans. Planning. Replanning (*continued*).

Organization and subdivision . . . by function. Districting. Districts (*continued*).

1730 Recreation areas.
1745 Boundary areas.
1800 Organization and subdivision of city area into streets and blocks.
1810 Location of main thoroughfares.
1820 Location of minor streets.
1830 Types of plats.

1900 Elements of city plans.

2000 Channels of transportation.
2050 Streets, roads. Footways.
2350 Street-railways. Rapid-transit facilities.
2450 Railroads.
2550 Waterways and waterfronts, Commercial.
2750 Terminal facilities.
2850 Conduits. Wires.
3000 Blocks and lots. Land subdivision.
3100 Blocks.
3250 Lots.
3400 Structures.
3440 Buildings.
3740 Bridges. Viaducts.
3800 Dams. Dikes. Levees.
3810 Defensive works.
3820 Minor structures.
3890 Other.
4000 Open spaces, public and quasi-public, other than for traffic.
4040 Park systems.
4100 Parks and reservations.
4300 Playgrounds, athletic fields. Provision for special sports.
4395 Drill grounds.
4400 Squares.
4480 Cemeteries.

ELEMENTS OF CITY PLANS (*continued*).

4500 Open spaces devoted to operation of special municipal services.
4550 Grounds of building groups.
4600 Grounds of single buildings.
4800 Vegetation.
4860 Special forms.
(4870) Special uses.
4875 Street planting.
4900 Lot planting.
4910 Building decoration.
4930 Planting of open spaces.
5000 Other elements.

5200 TYPES OF CITY PLANS.

5210 Types distinguished by climate.
5230 Types distinguished by types of population.
5250 Types distinguished by relation to topography.
5300 Types distinguished by dominant function.
5600 Types distinguished by size of city.
5630 Types distinguished by style of city plan, architectural character of city.

6800 CITY PLANNING, BY SPECIAL COUNTRIES AND CITIES arranged geographically.

CITY-PLANNING CLASSIFICATION

If used in connection with Library of Congress Classification, prefix NAC to numbers.

0 BIBLIOGRAPHY.

General only. Special bibliographies go with the special subjects. Cf. Library of Congress Class Z (Bibliography).

PERIODICALS.

Subdivided by language. Only general periodicals go here; local with 6800+, City planning by special countries and cities.

(1) (General.)
2 American and English.
4 French.
5 German.
14 Other.

15 YEARBOOKS.

SOCIETIES.

Proceedings, sets of publications.
For works on formation of societies, their activities, etc., see 513.

(20) (General.)
21 International.
22 United States.
23 Latin America. South America, Central America, Mexico.
25 British Empire.
28 France and Belgium.
29 Germany, Austria.
31 Hungary, Bohemia.
32 Italy.
33 Scandinavia, Holland.
35 Spain and Portugal.
36 Switzerland.
39 Other.

CONGRESSES. CONFERENCES. CONVENTIONS.

Proceedings, etc.

(40) (General.)

42 Permanent.

Arranged alphabetically by name of congress.

46 Occasional.

Arranged chronologically.

EXHIBITIONS.

Exhibitions in connection with Congresses go here, but with cross-reference from Congresses. Cf. 546, 940.

(50) (General.)

52 International.

Local.

55 United States.

60 Europe.

65 Other.

MUSEUMS.

(70) (General.)

Local.

75 United States.

80 Europe.

85 Other.

COLLECTED WORKS. General series.

E. g. Städtebauliche Vorträge.

180 Several authors.

185 Individual authors.

190 ENCYCLOPAEDIAS, DICTIONARIES, glossaries, lists of terms.

195 DIRECTORIES

BIOGRAPHY.

200 Collective.

205 Individual. A–Z.

HISTORY, historical development of city plans, historic forms of city with examples.

Cf. 6800+, which gives opportunity for a purely geographical arrangement. This section 210+ may be used to group material for special purposes.

210 Comprehensive, general.

History, historical development of city plans, historic forms of city with examples (*continued*).

European.

212 General.

By period.

215 Ancient cities.

217 Preclassic.

219 Classic.

225 Mediaeval cities.

230 Modern cities.

235 Oriental.

240 American.

245 Other.

General works.

250 Comprehensive treatises.

254 Outlines, syllabi, charts, diagrams, etc.

258 Pocket-books, tables, etc.

260 Partial works,

Treating two or more subdivisions of the general subject.

Essays, addresses, lectures.

Cf. 542.

265 Collective.

Miscellaneous.

270 Single.

When general; specific go with subject.

(280) General collections of material in special forms.

Classify here only material which it is desired to keep together as a collection rather than to distribute by subject.

282 Atlases and general collections of plans.

284 Portfolios and general collections of paintings, drawings, sketches, etc.

286 Albums and general collections of photographs, prints, plates, postcards, etc.

288 General collections of lantern slides.

290 General collections of clippings, excerpts, etc.

292 General collections of manuscripts, notes, etc.

294 General collections of books and pamphlets.

Chosen as typical; *e. g.* "ten books on city planning for an office library."

GENERAL SPECIAL.

300 Name. Use of terms.
City planning or Town planning, Civic design, Municipal improvement, Civic improvement, Civic betterment.

305 Purpose, utility.

310 Field, scope. Relation to other arts, sciences, and professions.

City planning as an art, science, or profession.

320 General.

322 Requirements.

324 Opportunities.

CITY-PLANNING MOVEMENT.
Municipal improvement, Civic betterment movement, etc.

500 General.

505 General special.
Purposes, activities, progress, etc.

ORGANIZATION.

510 General.

Agencies, organizations.
Cf. (1542).

512 General.

513 Societies.

515 Chambers of commerce, boards of trade.

517 Clubs, city clubs, women's clubs, etc.

520 Resources.

525 Campaigns, organization of work, etc.

EDUCATION OF PUBLIC.
Awakening of interest, public advertising, publicity.

540 General.

542 Lectures.
Cf. 265+.

544 Publications, propaganda.

546 Demonstrations, exhibitions.
Cf. (50)+, 940.

548 Teaching in public schools.
Cf. 900+.

ACTION BY COMMUNITY.

565 Direct improvement of conditions.

569 Support of existing official agencies.

CITY-PLANNING MOVEMENT (*continued*).

ACTION BY COMMUNITY (*continued*).

571 Unofficial employment of experts.
Cf. 875, 1540.

573 Initiating and securing of legislation.
Cf. 700+.

SPECIAL ASPECTS.

580 Village improvement movement.
Cf. 5605.

582 Garden city movement.
Cf. 5350.

584 Rural improvement movement.

586 Women in city planning movement.

(600) (Special places.) See 6800+, City planning by special countries and cities.
However, if desirable, a shorter geographical table, such as Library of Congress Table I of Class N, may be inserted here.

LEGISLATION.

Cf. 573. If a special collection is being made in this field, under each subdivision given here, local legislation might be arranged alphabetically by country or city. See also note under 760+, Regulative legislation

700 General.

CREATIVE.

705 General.

707 General acts.
e.g. British Housing and Town Planning &c. Act, 1909.

Creation or empowering of administrative agents.
Cf. 1520+.

712 General.

714 City-planning departments, commissions, etc.
Cf. 1535.

716 Other.

Creation of public properties, rights, etc.

720 General.

722 Acquisition of land and other privately owned property. Eminent domain.
Condemnation of land, taking of land, etc.

724 Excess condemnation.

728 Redistribution of land. "Lex Adickes."

735 Creation of easements, rights-of-way, etc.

740 Acquisition of privately-owned utilities.

LEGISLATION (*continued*).

REGULATIVE.

760 General.

(765) (Special.) For regulative legislation relating to special subjects (*e. g.* Districts, Streets, Buildings, Parks) see the special subjects, subhead Legislation. See Index, under Legislation.

SPECIAL COUNTRIES.

Put here, if desirable, collected legislation of special countries or localities.

775 United States.

780 Europe.

785 Other.

METHODS OF TECHNICAL PROCEDURE. PROFESSIONAL PRACTICE.

Cf. subhead Special professional considerations under Elements (*e. g.* Bridges). See Index, under Professional considerations.

800 General.

805 General special.

810 Legislation. Regulation.

COLLECTION AND PRESENTATION OF DATA. MAKING OF SURVEYS.

In general; local works go in 6800+. Cf. Data 1300+. Put here *Methods* of collecting and presenting data, etc. Discussions or general collections of data go in 1300+.

815 General.

Special classes.

820 Topographic, etc.
Cf. 1320+.

822 Social, etc.
Cf. 1400+.

824 Legal and administrative.
Cf. 1500+.

826 Economic and financial.
Cf. 1545+.

Forms of presentation of data.

830 General.

METHODS OF TECHNICAL PROCEDURE. PROFESSIONAL PRACTICE (*continued*).

COLLECTION AND PRESENTATION OF DATA. MAKING OF SURVEYS.

Forms of presentation of data (*continued*).

832 Reports, tabulations, compilations, censuses, etc.

Cf. 852.

834 Maps, etc.

Cf. 854.

836 Models.

Cf. 856.

838 Photographs, etc.

DESIGN, economic and esthetic. Making of city plans.

Cf. 914, 1200.

840 General.

842 Studies.

844 Preliminary planning.

846 Revision and amplification.

848 Details.

PRESENTATION OF CITY PLANS.

850 General.

852 Reports.

Cf. 832.

854 Drawings, plans, etc.

Cf. 834.

856 Models.

Cf. 836.

858 Estimates.

860 DIRECTION OR SUPERVISION OF CONSTRUCTION AND MAINTENANCE.

Cf. subhead Construction and maintenance under the individual Elements, (*e. g.* Streets, Parks). See Index.

875 CONSULTATION. COÖPERATION OF EXPERTS.

Cf. 571, 1540.

880 COMPETITIONS.

Material relating to special competitions may be classified by the subject of the competition, or grouped here, according to convenience.

STUDY AND TEACHING.

Cf. 548. This section 900+ is for professional study and teaching.

900 General.
905 General special.

SUBJECT MATTER.

910 General.
912 Theory of city planning.
914 Practice in design, economic and esthetic.
Cf. 840+, 1200.
916 Elements of city plans. Materials.
Cf. 1900+.
918 Construction and maintenance.
920 Special contributory subjects.

METHODS.

930 General.
935 Courses of study in universities, colleges, technical schools.
940 Study in libraries, collections, and exhibitions.
Cf. (50)+, 546.
945 Observation and travel.
947 City-planning study tours.
950 Experience in offices of competent practitioners.

SPECIAL COUNTRIES.

960 United States.
962 England.
964 France.
966 Germany.
978 Other.

SPECIAL SCHOOLS.

Including catalogues and bulletins. Note: word "school" is used in the sense of institution not in the sense, *e. g.* "school of Sitte."

980 United States.
982 England.
984 France.
986 Germany.
998 Other.

COMPOSITION OF CITY PLANS. PLANNING. REPLANNING.

1200 GENERAL. General theory and principles of design.

Cf. 840+, 914, and subhead Design under Elements (*e. g.* Streets, Parks). See Index.

(1205) SPECIAL ASPECTS. General considerations. Broad relations.

Cf. 1300+, Data, and subhead Special aspects under Elements. See Index.

1210 SOCIAL ASPECTS. Social ethics.

Cf. 1400+ and subhead Social aspects under Elements (*e. g.* Open spaces). See Index.

1215 HYGIENIC ASPECTS. Public health.

Cf. 1445+ and subhead Hygienic aspects under Elements (*e. g.* Open spaces). See Index.

1225 ECONOMIC ASPECTS. Efficiency of the community. Municipal government.

Cf. subhead Economic aspects under Elements (*e. g.* Blocks and lots). See Index.

ESTHETIC ASPECTS. Civic beauty. Civic art. Municipal art.

Cf. subhead Esthetic aspects under Elements (*e. g.* Buildings). See Index

1235 General.

1240 General special.

1242 Organic beauty of city.

1244 Birdseye views. Aerial views.

Including views from eminences.

1246 Influence of aviation on planning for appearance of city.

1248 Silhouette, skyline.

1250 Visual compositions seen from given points. Views.

1252 Vistas. Termini.

1253 Open.

1254 Closed.

1256 Color.

Cf. 3517.

1260 City at night. Lighting effects.

Cf. 1476.

COMPOSITION OF CITY PLANS. PLANNING. REPLANNING (*continued*).

SPECIAL ASPECTS. General considerations. Broad relations (*continued*).

HISTORIC ASPECTS.

Cf. subhead Historic aspects under certain elements (*e. g.* Buildings). See Index.

1270 General.

1272 Truth to historic type.

1274 Preservation of individuality.

1276 Preservation of historic features in cities.

Cf. 4230.

1290 OTHER.

DATA. Fundamental conditions, existent and predictable.

Cf. 815+, and subhead Data under Elements (*e. g.* Streets, Parks). See Index.

1300 General.

1305 General special.

1308 Purposes and importance of data.

1310 Sources.

CLIMATE, TOPOGRAPHY, SOIL, etc. Natural environment.

Cf. 820.

1320 General.

1325 General special.

Climate.

Cf. 5210+.

1330 General.

1332 Temperature.

1334 Rainfall. Snow-fall.

1336 Prevailing winds.

Topography. City sites.

Cf. 1555+, 5250+, and subhead Topographic aspects, or Topography under Elements. See Index.

1340 General.

1345 General special.

1347 Artificial topography. Removal of hills, filling of low or submerged areas. Reclamation.

Land forms.

1350 General.

Composition of city plans. Planning. Replanning (*continued*).
Data. Fundamental conditions.
Climate, Topography, soil, etc.
Topography. City sites.
Land forms (*continued*).

1352 Plains, prairies, marshes.
Cf. 5270.

1354 Valleys.
Cf. 5280.

1356 Hills, slopes, hilltops.
Cf. 4220, 5285, 5290.

Water bodies, shores, waterfronts.
Cf. 2640+, 4170+.

1360 General.

1365 General special.

1367 Use of shores, waterfronts.
Cf. 2640+, 4170+.

(1368) (Reclamation of shores.) See 1347.

1370 Coast, shores.
Of sea, arm of sea, or large lake. Cf. 4181, 4182, 5255.

1372 Islands.
Cf. 4184, 5260.

1374 Small lakes.
Cf. 4182.

1376 Rivers, streams.
Cf. 2580+, 4183, 5265.

Soil. Ground water.
Including subsoil.
Cf. 1557.

1380 General.

1382 Soil. Geological character. Types of soil.
E. g. rock, gravel, sand, clay, peat, loam. Cf. 1715, Agricultural districts, and 4800+, Vegetation.

1386 Ground water. Flow of underground water, water-table.

1390 Other natural conditions.

1392 Volcanoes, earthquakes, etc.

Population. Social conditions. Man-made environment.
Cf. 822, 5230.

1400 General.

Composition of city plans. Planning. Replanning (*continued*).
Data. Fundamental conditions.
Population . . . environment (*continued*).

1405 General special.
1410 Character, organization, manner of life, etc., of population.
1415 History of the city.
Growth and changes of population. Congestion of population. City and country.
1422 General.
1424 Cityward movement.
1426 Countryward movement.
1430 Housing.
Cf. 1675+, 3620+, 5350, and Library of Congress Class HD (section relating to Housing).
1432 Municipal model housing.
1433 Employers' model housing.
1434 Copartnership housing.
1435 Industrial conditions.
1440 Transportation, circulation.
Cf. 2000+, Channels of transportation.
1445 Public health and safety.
Cf. 1215, and Library of Congress Class RA (Public health).
1447 Air and sunlight.
1449 Smoke prevention.
Cf. 4854.
1450 Dust prevention.
1451 Noise prevention.
1452 Drainage of land.
Cf. 2890, 2895.
1454 Protection from floods.
Cf. 3800.
1456 Water-supply.
Cf. 2885+, 4510.
1458 Stream pollution.
Disposal of wastes.
1460 General.
1462 Water-borne.
1464 Sewage.
Cf. 2890, 4520.

Composition of city plans. Planning. Replanning (*continued*).
Data. Fundamental conditions.
Population . . . environment.
Public health and safety.
Disposal of wastes.
Water borne (*continued*).

1466 Surface water.
Cf. 2890.

1470 Non-water-borne.

1472 Garbage, refuse, rubbish, etc.
Dumps, incinerators, etc. Cf. 4538.

1474 Street cleaning.

1475 Snow removal.

1476 Lighting.
Cf. 1260, 3870.

1478 Fire protection.
Cf. 2652, 2888, 3540+, 3568.

1479 Conflagrations. Fires.
Cf. 1617.

1480 Defence.
Cf. 2625, 3810+.

1485 Other.

1490 Public education.
Cf. 3570.

1495 Public recreation.
Cf. 3575, 3728, 4000+.

1499 Other.

Legal and administrative conditions.
Limitations of existing legislation, administrative conditions, etc. Cf. 824.

1500 General.

Legal.
Cf. 700+. But here only Laws as data.

1505 General.

1510 Laws relating to public property, rights, etc.

1515 Laws relating to private property, rights, etc.

Administrative.
Cf. 712+, where laws relating to creation of administrative agents should go.

COMPOSITION OF CITY PLANS. PLANNING. REPLANNING (*continued*).

DATA. Fundamental conditions.

LEGAL AND ADMINISTRATIVE CONDITIONS.

Administrative (*continued*).

1520 General.

Public agencies.

1525 General.

1526 General special.

1527 Relation of federal, state, and municipal agencies.

Cf. 712+, 1590.

1530 Existing.

City engineers' departments, departments of public works, street departments, water and sewerage boards, park departments, harbor boards and port directors, etc.

1535 Specially created.

City-planning departments, city-planning commissions, art commissions, etc. Cf. 714.

1540 Public consultation of experts, official employment of experts.

Cf. 571, 875.

Private agencies.

1541 Public service corporations.

(1542) (Societies, etc.) See 500+.

ECONOMIC AND FINANCIAL CONDITIONS. Resources.

Cf. 826.

1545 General.

Economic.

1550 General.

1555 Advantages (or disadvantages) of situation of city.

Cf. 1340+.

1557 Natural resources.

Fertile soil, mineral wealth, water-power, etc. Cf. 1380+.

1559 Commercial and industrial opportunities.

1563 Use of land, land values.

Cf. 4016, and Library of Congress Class HD (section relating to Land).

Composition of city plans. Planning. Replanning (*continued*).

Data. Fundamental conditions.

Economic and financial conditions.

Economic.

Use of land, land values (*continued.*)

1565 Stability and convertibility.

1567 Effect of design and improvements on land values.

1568 Effect of taxation on land development.

Financial. Municipal finances.

Cf. Library of Congress Class HJ (Public finance).

1570 General.

Income.

1575 General.

1580 From taxation and assessment, betterments, benefit assessments, etc.

1585 From franchises, etc.

1588 From municipally-owned property and enterprises.

Municipal forests, leases of city lands, municipal operation of public utilities.

1590 From federal or state grants. Governmental aid.

Cf. 1527.

1594 From gifts, bequests, etc.

1595 Expenditure. Estimate and apportionment.

Organization and subdivision of city area by dominant function. Districting. Districts.

1600 General.

1605 General special.

1607 Relative size of districts.

1609 Control of undeveloped land.

1611 Development of new districts. Extensions.

1613 Effects of change in type of occupancy.

1617 Replanning of burned districts.

Cf. 1479.

1620 Legislation. Zoning.

Cf. 3460.

Composition of city plans. Planning. Replanning (*continued*).
Organization . . . Districts (*continued*).

1625 Administrative districts.

1627 Civic centers.

Cf. 3720, (4570). Material may be grouped in 1627 or 3720, according to point of view desired.

Business districts. Industrial districts.

Cf. 2640+, 3190+.

1630 General.

1631 General special.

1633 Relation to transportation facilities.

1635 Location, urban vs. suburban. Industrial suburbs, "garden city" principle of location and development, etc.

Cf. 5350.

1640 Density of development, intensiveness of occupancy, general character of building development.

Height, cf. 3480+; materials, cf. 3510+; fireproofing, cf. 3540+; etc.

1645 Financial districts.

Cf. 3600.

1650 Manufacturing districts.

Cf. 2740, 3195, 3595.

1655 Warehouse, shipping districts.

Cf. 2718, 3200, 3605.

1660 Market districts.

Cf. 2827, 3610, 4425.

1665 Wholesale districts.

1670 Retail districts.

Cf. 3210, 3600.

Residential districts.

Cf. 1430+, 2235+, 3230+, 3380+, 3620+, 5530+.

1675 General.

1676 General special.

1677 Density of development. Intensiveness of occupancy. Number of houses to acre.

Composition of city plans. Planning. Replanning (*continued*).
Organization . . . Districts.
Residential districts (*continued*).
Urban.

1679 General.
1680 General special.
1682 Relation to business encroachment.
1683 Relation to through traffic.
Suburban. Suburbs.
Cf. 5330, 5350. Garden suburbs may be put here or in 4350.
1685 General.
1686 General special.
1687 Relation of growth of suburbs to transportation facilities.
1690 Special types.
Districts distinguished by predominant cost of residences.
1694 General
1695 High-cost.
Cf. 3637, 3642, 3652.
1696 Medium-cost.
Cf. 3638, 3643, 3653, 3658.
1697 Low-cost.
Cf. 3639, 3644, 3654, 3659.
Districts distinguished by predominant type of residences.
1698 General.
Houses in-block.
Cf. 3235, 3635+.
1700 General.
1701 Single.
Cf. 3636+.
1702 Apartments (high-class).
Cf. 3642.
1703 Tenements. Slums.
Cf. 3644.
Detached houses.
Cf. 3240, 3650+.
1705 General.

Composition of city plans. Planning. Replanning (*continued*).
Organization . . . Districts.
Residential districts.
Special types.
Detached houses (*continued*).

1706 Single.
Cf. 3651+.

1707 Semi-detached.
Cf. 3656+.

1708 Other.

Agricultural Districts, agricultural belts, forest belts.
Cf. 1380+, (3244).

1715 General.

1720 Agricultural belts.

1723 Market-garden areas.

1724 Allotment gardens.

(1725) (Forest belts.) See 4160, Forest reservations.

Recreation areas.
Cf. (3245), 4000+.

1730 General. Distribution.

1731 General special.

1733 Relation to transportation facilities.

Boundary areas. Boundaries.
Cf. 1715+, Agricultural and forest belts.

1745 General.

1748 Approaches and entrances.
Cf. 2750+, Terminal facilities.

1750 City boundaries.
Cf. 3815, City walls.

Organization and subdivision of city area into streets and blocks. Land subdivision, in the larger sense.
Cf. 3000+.

1800 General.

1805 General special.

1810 Location of main thoroughfares.
Cf. 2170+.

1812 Determining centers, goals, foci.

1814 Determining connecting routes.

Composition of city plans. Planning. Replanning (*continued*).
Organization . . . streets and blocks (*continued*).

1820 Location of minor streets.
Cf. 2220+.

Types of plats.
Cf. 5635+.

1830 General.
Formal.
Cf. 5635+.

1835 General.

1837 Gridiron.
Cf. 5637.

1839 Gridiron and diagonal.
Cf. 5639.

1841 Radius and round-point.
Cf. 5641.

1844 Other.
Informal.
Cf. 5645+.

1845 General.

1847 Rectilinear.
Cf. 5647.

1849 Curvilinear.
Cf. 5649.

1851 Composite.
Cf. 5651.

Elements of city plans.
Cf. 916.

1900 General. Collective.

Channels of transportation. Of persons commodities, power. Ways, conduits, wires.
Cf. 1440, and Library of Congress Class HE (Transportation and communication).

2000 General.

2005 General special.

2010 Special aspects.

2011 Topographic.

2012 Social.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
Special aspects (*continued*).

2013 Hygienic.
2014 Economic.
2015 Esthetic.
2016 Historic.
2020 Legislation.
2025 Special professional considerations.
2026 Data.
2027 Design.
2028 Construction and maintenance.
2029 Cost.

STREETS, ROADS. FOOTWAYS.

2050 General.
2055 General special.
2057 Influence of traffic on street-form, street-plan, etc. Congestion of traffic.
2058 Influence on streets of changes in means of transportation. Development of motor traffic.
2060 Special aspects.
2070 Legislation.
Including street-traffic regulation.
2075 Special professional considerations.
2076 Data.
Traffic censuses, data on vehicles (*e.g.* motor trucks).
2077 Design.
2078 Construction and maintenance.
2079 Cost.
2085 Form,
Straight or curved.
2090 Orientation.
Cf. 3060.
2095 Length, continuity.
2100 Gradient.
2103 Treatment of steep gradients.
Width. Cross-section.
Cf. 2356.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
STREETS, ROADS. FOOTWAYS.
Width. Cross-section (*continued*).

2105 General.
Special components.
(2107) (Separate roadways.) See 2115, Multiple streets.
(2108) (Walks.) See 2252, Footways.
(2109) (Planting strips. Parking. Reservations.) See 4875+, Street planting, and 2382, Street-railway reservations.
2110 Special topography. Hillside streets.
2115 Streets specially subdivided. Multiple streets.
2116 Parked streets.
2118 Streets with irrigation canals.
E. g. as in Boulder, Colo.
2119 Double-deck streets, two-story streets.

Surface. Pavements.
Cf. Library of Congress Class TE (Roads and pavements).

2120 General.
2121 Special kinds, arranged alphabetically.
2122 Gutters, curbs.
2124 Drain inlets, man-hole covers, etc.
Cf. (2306).
2128 Crossings, isles of safety.

Street junctions.
2135 General.
2136 Intersection of lines of traffic, avoidance of collision points.
2138 Viaducts to avoid crossings at grade.
Cf. 2513, 3740+.

2150 Proportion of street area to block area.

Relation to buildings.
2155 General.
2157 Set-backs.
Cf. 3081.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
STREETS, ROADS. FOOTWAYS.
Relation to buildings (*continued*).

2159 Encroachments of buildings, balconies, stoops, marquees, projections, etc.
2161 Arcades, colonnaded streets, covered streetways, galleries.
2163 Relation to height of buildings.

Cf. 3083, 3480+.

Thoroughfares. Highways. "Traffic streets."

Cf. 1810+.

Including interurban highways.

2170 General.
2175 General special.
2180 Special forms.
2182 Radial.
2183 Circumferential, peripheral. Ringstrassen.
2184 Diagonal.
2188 Other.

Special uses.
For business traffic.

Cf. 4891.

2195 General.
2197 Traffic squares. Roundpoints.

Cf. (4420).

2199 Cabstands.
2201 One-way streets.

For pleasure traffic. Drives.

Cf. (4196), 4893.

2205 General.
2207 Formal. Boulevards, etc.
2209 Informal. Parkways, etc.
2211 Concourses.
2213 Bridle paths.
2214 Bicycle paths.

Local streets.

Cf. 1820.

2220 General.

Elements of city plans (*continued*).
Channels of transportation.
Streets, roads. Footways.
Local streets (*continued*).

2225 General special.
Special uses.
2230 For business. As frontage for business buildings, etc.
Cf. 1630+, 4891.
2233 Business squares.
For residence. Residential streets.
Cf. 1675+, 4892.
2235 General.
2236 Urban.
2237 Suburban.
2238 "Places," residential squares.
Special forms.
2242 Alleys.
Cf. 3181.
2244 Private ways.
Footways.
2250 General.
2252 Sidewalks. Walks.
2254 Independent footways.
2256 Steps, ramps, etc.
2258 Promenades, malls, etc.
Cf. 4197.
2262 Footbridges and tunnels.
Cf. 3740+.
Highway bridges and tunnels.
Cf. 3740+
2270 General.
2272 Special purposes, to cross water, railroads, highways, etc.
2276 Approaches.
Cf. 2405.
2278 Draws.
2282 Elevators, lifts, etc.
Cf. 2526.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
STREETS, ROADS. FOOTWAYS.
Highway bridges and tunnels (*continued*).

2284 Subsidiary uses.
2286 Bridges. Culverts.
2288 Tunnels.
Street furniture.
Cf. 3860.
2290 General.
2292 Street name-plates.
Cf. (3850).
2294 Poles and wires.
Cf. 2386.
2296 Police-boxes, fire-alarm boxes. Letter-boxes.
(2298) (Clocks.) See 3855.
(2302) (Drinking fountains, troughs.) See 3849.
2304 Hydrants.
(2306) (Man-hole covers, drain inlets, etc.) See 2124.
(2308) (Waste cans, etc.) See 3860.
2309 Other.
(2310) (Street lighting, street-lighting fixtures, lamp-posts, electroliers, etc.) See 3870.
(2315) (Street planting.) See 4875+.
2320 Street decoration for festivals.
Sub-surface utilities in relation to the street.
2325 General.
2328 Special subways.
Cf. 2400, Rapid transit subways.
(2329) (Special utilities, *e. g.* sewerage, telephone.) See 2850+.

STREET-RAILWAYS. Rapid-transit facilities.
Including interurban street-railways. Cf. 1633, 1687, 1733, (2780), 2807.
2350 General.
2355 General special.
2356 Relation to street. Connections between transportation lines at different levels, subway approaches.
Cf. 2105+.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
STREET-RAILWAYS. Rapid-transit facilities.
General special (*continued*).

2357 Obstruction of surface traffic by street-railway structures.
2360 Special aspects.
2370 Legislation.
2375 Special professional considerations.
Surface railways.
2380 General.
2382 Street-railway reservations.
2384 Tracks. Width, spacing, curvation, etc.
2386 Trolley poles and wires, underground cables, etc.

Cf. 2294, 2850+.

2390 Elevated railways, including street-railway bridges and viaducts.

Cf. 3740+.

2400 Subways, tunnels, tubes, underground railways.
2405 Non-surface stations and station approaches. Escalators.
2410 Shelters, waiting stations, transfer stations.

Cf. 3675.

2420 Street-railway terminals. Car-barns, yards.

RAILROADS.

Cf. 2714, (2785), 5316.

2450 General.
2455 General special.
2457 Electrification.
2460 Special aspects.
2470 Legislation.
2475 Special professional considerations.
2480 Stations.

Cf. 3605. Material may be grouped under either number, according to point of view desired.

2483 Union stations.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
RAILROADS (*continued*).

Station places. Station squares. Station grounds.
Cf. (4423).

2485 General.
2486 Urban.
2487 Suburban
2488 Village.
2490 Train yards.
2495 Freight houses and yards.
Rights-of-way.
2500 General.
2502 Through lines.
2504 Belt lines.
2510 Crossings.
2512 At grade. Grade crossings.
2513 Not at grade.
Cf. 2138.
Railroad bridges and tunnels.
Cf. 3740+.
2515 General.
2516 To cross land.
2517 To cross water.
2520 Special uses.
2522 Freight tunnels.
2524 Draws.
2526 Elevators, lifts.
Cf. 2282.
2528 Bridges.
2529 Tunnels.

WATERWAYS AND WATERFRONTS, COMMERCIAL.
Cf. (2790), 5317, and Library of Congress Class TC (Hydraulic engineering).
2550 General.
2555 General special.
2560 Special aspects.
2570 Legislation.
Including port regulation.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
WATERWAYS AND WATERFRONTS, COMMERCIAL (*continued*).

2575 Special professional considerations.
Rivers, canals.
Cf. 1376, 5265.
2580 General.
2585 Channels.
2588 Locks.
(2590) (Banks.) See 2640+, Waterfronts.
(2595) (Bridges.) See 3740+, and references from there.
Bays, harbors, basins.
2600 General.
2605 Channels and anchorages.
Location, marking, dredging, etc.
2608 Lighthouses.
2610 Harbor lines, bulkhead lines, etc.
Protective works.
Cf. 3800.
2615 General.
2617 Breakwaters, jetties, etc.
2619 Sea walls.
2625 Defensive works.
Cf. 1480, 3810+, 5313.
2630 Harbors and basins for special purposes.
E. g. fishing fleet, yachting fleet.
Waterfronts.
For recreational waterfronts, see 4170+.
2640 General.
2645 General special.
Special.
2650 Capacity, frontage.
2652 Fire protection.
Cf. 1478.
Docks, slips, etc.
2660 General.
2665 Special.
E. g. size.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
WATERWAYS AND WATERFRONTS, COMMERCIAL.
Waterfronts.
Docks, slips, etc. (*continued*).

2670 Docking apparatus.
2675 Ferry slips.
Wharves, piers, jetties, quays, etc.
For recreation piers, see 4199.
2680 General.
2685 Special.
E. g. length.
2690 Administration quarters, including quarantine, revenue service, accommodation for employees.
Special provision for passengers.
Cf. 2800+.
2695 General.
2697 Landing stages.
2699 Shelters, waiting places, etc.
2701 Areas for vehicles.
E. g. cars, cabs, motor vehicles.
Special provision for freight.
Cf. 2820+.
2710 General.
2712 Freight handling apparatus.
2714 Railroad lines.
Cf. 2450+.
2716 Areas for vehicles.
E. g. drays, motor trucks.
2718 Warehouses, sheds.
Cf. 3605.
2720 Areas for handling and storing special classes of freight.
2722 Grain, grain elevators.
2723 Lumber, coal, stone, gravel, etc. — yards.
Cf. 3197

Elements of city plans (*continued*).
Channels of transportation.
Waterways and waterfronts, Commercial.
Waterfronts.
Wharves, piers, jetties, quays, etc.
Special provision for freight.
Areas for handling . . . freight (*continued*).

2724 Oil, chemicals, explosives.
2725 Perishable goods, cold storage goods.
2729 Other.
2730 Storage areas.

For roofed storage areas, see 2718. For storage areas for special classes of freight, see 2720+.

2735 Shipyards. Drydocks.
2740 Industrial areas, utilization of waterfront by manufacturing plants.

Cf. 1650.

Terminal facilities.

2750 General.
2755 General special.
2760 Special aspects.
2770 Legislation.
2775 Special professional considerations.
Types, by mode of transportation.
(2780) (Interurban street-railways.) See 2350+.
(2785) (Railroads.) See 2450+.
(2790) (Waterways and waterfronts.) See 2550+.
2795 Aerial transportation terminals. Aviation landing places.

Cf. 4384.

Types, by kind of traffic.
Passenger.

Cf. 2695+.

2800 General.
2805 General special.
2807 Relation to local transportation and rapid transit.

Cf. 2350+.

Freight.

Cf. 2522, 2710+.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
TERMINAL FACILITIES.
Types, by kind of traffic.
Freight (*continued*).

2820 General.
2825 General special.
2827 Relation to markets.
Cf. 1660.
2829 Transshipment. "Free ports."

CONDUITS. WIRES.

2850 General.
2855 General special.
2857 Relation to street maintenance.
2860 Special aspects.
2870 Legislation.
2875 Special professional considerations.
Conduits, pipes, etc.
Culverts, see 2273. Cf. Library of Congress Class TD. (Sanitary and municipal engineering.)
2880 General.
2885 Water-supply and distribution, including aqueducts.
For monumental aqueducts, see 3740+. Cf. 1456.
2888 Auxiliary high-pressure fire-protection water-supply.
Cf. 1478.
2890 Sewerage and surface drainage systems.
Cf. 1452, 1462+.
2895 Subsurface drainage systems.
Cf. 1452.
2900 Gas distribution.
2905 Pneumatic tubes.
2910 Other.
Wires.
Cf. 4856.
2915 General.
2920 General special.
2922 Removal of overhead wires.

ELEMENTS OF CITY PLANS (*continued*).
CHANNELS OF TRANSPORTATION.
CONDUITS. WIRES.
Wires (*continued*).

2925 Power, light, and heat wires.
2930 Telephone and telegraph wires.
2935 "Wireless" apparatus.

BLOCKS * AND LOTS. LAND SUBDIVISION.

In usual sense. Cf. 1800+ and 3380+. Put here general material relating to both blocks and lots, putting special material relating to one alone under Blocks or Lots. The full subdivision is given under each of the three headings to provide for the arrangement of graphic material. For printed material, use principally Blocks and lots, and Lots, putting under Blocks only special material such as would come in 3150–3220.

3000 General.
3005 General special.
3010 Special aspects.
3011 Topographic.
3012 Social.
3013 Hygienic.
3014 Economic.

Real estate.

3015 Esthetic.
3016 Historic.
3020 Legislation. Restrictions.

Cf. 1620. Zoning.

3025 Special professional considerations.
3026 Data.
3027 Design.
3028 Construction and maintenance.
3029 Cost.

Size, shape, orientation, topography. Adaptability to development.

Cf. 3120+, 3270+.

3040 General.
3045 Size. Dimensions.

Cf. 3125, 3275.

* Block is used in the sense of an area of ground, not in its popular sense, houses in-block.

ELEMENTS OF CITY PLANS (*continued*).
BLOCKS AND LOTS. LAND SUBDIVISION.
Size, shape . . . Adaptability to development (*continued*).

3050 Shape. Proportions.
Cf. 3130+, 3280.

3060 Orientation.
Cf. 2090, 3140, 3290.

3065 Topography.
Cf. 3145, 3293+.

3070 Relation to street.
For relation of block *area* to street *area*, see 2150. Cf. 3155, 3305+.

Relation of area to buildings thereon.
Cf. 3165+, 3315+.

3075 General.
3077 Proportion of built-over area.
3079 Disposition of built-over area.
3081 Building lines.
Cf. 2157, 3460.

3083 Building heights.
Cf. 1640, 3460, 3480+.

3087 Disposition of unbuilt-over area.
Cf. 3177, 3327.

3089 Courts, gardens, etc.
Cf. 3179, 3329+.

3091 Passageways.
Cf. 3181.

BLOCKS.
See note under 3000+. Blocks and lots.

3100 General.
3105 General special.
3115 Special professional considerations.
Size, shape, orientation, topography. Adaptability to development.
Cf. 3040+, 3270+.

3120 General.
3125 Size. Dimensions.
Cf. 3045, 3275.

ELEMENTS OF CITY PLANS (*continued*).
BLOCKS AND LOTS. LAND SUBDIVISION.
BLOCKS.
Size, shape . . . Adaptability to development (*continued*).
Shape. Proportions.
Cf. 3050, 3280+.

3130 General.
3131 Rectangular.
Cf. 3282.
3133 Tapering.
3135 With one side or more curvilinear.
3139 Other.
3140 Orientation.
Cf. 3060, 3290.
3145 Topography.
Cf. 3065, 3293+.
3150 Relation to other blocks.
3151 Equality.
3152 Dominance or subordination.
3155 Relation to street.
Cf. 3070, 3305+.
3160 Subdivision into lots.
3163 Fluctuation in sizes of component lots.
Relation of area to buildings thereon.
Cf. 3075+, 3315+.
3165 General.
3167 Proportion of built-over area.
3169 Disposition of built-over area.
3177 Disposition of unbuilt-over area.
Cf. 3087+, 3327.
3179 Courts, block interiors.
Cf. 3089.
3181 Passageways, alleys, etc. Access to interiors.
Cf. 2242, 3091.
3183 Corner reservations.
Cf. 3308.

ELEMENTS OF CITY PLANS (*continued*).
BLOCKS AND LOTS. LAND SUBDIVISION.
BLOCKS (*continued*).

Special types of occupancy.

Business.

Cf. 1630+.

3190 General.

3195 Manufacturing plants.

Buildings and grounds. Cf. 3595.

3197 Brick-yards, lumber-yards, tan-yards, stock-yards, etc.

Cf. 2725.

3199 Pleasure grounds for employees.

3200 Warehouses.

Cf. 1655, 3605.

3205 Office buildings.

Cf. 3600.

3210 Retail shops.

Cf. 1670, 3600.

3220 Other.

Residence.

Cf. 1675+, 3380+, 3620+.

3230 General.

3235 Houses in-block.

Cf. 1700+, 3635+.

3240 Detached houses.

Cf. 1705+, 3650+.

(3244) (Agriculture.) See 1715+.

(3245) (Open-air recreation.) See 4000.

LOTS.

See note under 3000+. Blocks and lots.

3250 General.

3255 General special.

3265 Special professional considerations.

3269 Cost.

Size, shape, orientation, topography. Adaptability to development.

Cf. 3040+, 3120+.

3270 General.

ELEMENTS OF CITY PLANS (*continued*).
BLOCKS AND LOTS. LAND SUBDIVISION.
LOTS.

Size, shape . . . Adaptability to development (*continued*).

3275 Size. Dimensions.
Cf. 3045, 3125.

Shape. Proportions.
Cf. 3050, 3130+.

3280 General.
3281 Shape.
3282 Rectangular.
Cf. 3131.
3284 Unusual shapes.
3285 Proportions.
3286 Oblong.
3289 Other.
3290 Orientation.
Cf. 3060, 3140.
3293 Topography.
Cf. 3065, 3145.
3295 Hillside lots.
3300 Relation of lots to other lots.
3304 Treatment of lot boundaries. Walls, fences, hedges.
Cf. 3825.

Relation to street.
Cf. 3070, 3155.

3305 General.
3306 General special.
3308 Corner lots.
Cf. 3183.
3310 Frontage.
3311 Depth.
3312 Grade.

Relation of area to buildings thereon.
Cf. 3075+, 3165+.

3315 General.
3317 Proportion of built-over area.
3319 Disposition of built-over area.

ELEMENTS OF CITY PLANS (*continued*).
BLOCKS AND LOTS. LAND SUBDIVISION.
LOTS.
Relation of area to buildings . . . (*continued*).

3327 Disposition of unbuilt-over area.
Cf. 3087+ 3177.

3329 Gardens.

(3330) (Dooryard). See 4901.

(3331) (Backyard.) See 4902.

3334 Other.

Special types of occupancy.

(3340) (Business.) See 3190+, Blocks.

Residential. Land subdivision for residences.
Cf. 1675+, 3230+, 3620+.

3380 General.

3385 Large estates.

3390 Suburban places.

3395 Building lots. House lots.

STRUCTURES. Architectural and engineering, except structures constituting channels of transportation.
For these see 2000+.

3400 General.

3405 General special.

3410 Special aspects.

3415 Esthetic.

3416 Historic.

3419 Other.

(3420) (Legislation.)

3425 Special professional considerations.

BUILDINGS.
Cf. Library of Congress Class NA (Architecture) and TH (Building construction).

3440 General.

3445 General special.

3448 Relation to surroundings.
Cf. 4550+, 4600+.

3450 Special aspects.

3452 Social.

ELEMENTS OF CITY PLANS (*continued*).
STRUCTURES.
BUILDINGS.
Special aspects (*continued*).

3453 Hygienic.
3455 Esthetic.
General effect of style, scale, etc. Consistency.
3456 Historic.
3460 Legislation.
Including building laws, building codes, restrictions affecting appearance, etc. Cf. 1620, Zoning; 3081. Building lines; 3083, Building heights.
3465 Special professional considerations.
3466 Data.
3467 Design.
3468 Construction and maintenance.
3469 Cost.
Form.
3475 General.
3480 Size. Height.
Cf. 1640, 2163, 3083, 5660.
3489 "Skyscrapers."
Cf. 5660.
3490 Style.
Architectural. Cf. 5690.
3500 Special elements.
3502 Domes, spires, towers, etc.
3504 Roofs, etc.
3506 Walls, doors, windows, etc.
3509 Other.
Materials.
Cf. 1640, 5680.
3510 General.
3515 General special.
3517 Color.
Cf. 1256.
3520 Structural materials.
3521 Wood.
3523 Brick and tile.

Elements of city plans (*continued*).
Structures.
Buildings.
Materials.
Structural materials (*continued.*)

3524 Stone.
3526 Concrete.
3527 Reinforced concrete.
3528 Iron and steel.
3529 Other.
Special surface treatment.
3535 Stucco-plaster.
3539 Other.
Types of construction.*

Cf. 1478, and Library of Congress, Class TH (Building construction).

3540 General.
3542 Fire-resistive.

Masonry walls, incombustible floors.

3543 Semi-fire-resistive.

Masonry walls, wooden floors.

3544 Combustible.

Wooden walls and floors.

3549 Other.
Buildings for special uses.

Cf. 4600+. Probably better to concentrate material here in 3560+ unless there is a special reason for doing otherwise. If it is desired to subdivide under each group, buildings may be arranged alphabetically by kind of building.

3560 General. Collective.
3563 Public buildings.

Including federal, state, and municipal buildings.

3565 Administration.

Including capitols, city halls, court houses, etc.

3568 Special municipal services.

Including pumping stations, water-towers, standpipes, power houses, gas tanks, fire stations, police stations, prisons, etc. Cf. 4500+, Open spaces devoted to operation of special municipal services.

* Classification by Professor C. W. Killam, Harvard University.

ELEMENTS OF CITY PLANS (*continued*).
STRUCTURES.
BUILDINGS.
Buildings for special uses (*continued*).

3570 Educational buildings.
Schools, libraries, museums, etc. Cf. 3722.

3575 Buildings for recreation.
Opera houses, theatres, auditoriums, etc. Cf. 3728.

3580 Public baths, gymnasia, etc.

3585 Hospitals, asylums, etc.

3590 Churches.

3595 Buildings for manufacturing.
Factories, mills, etc. Cf. 3195.

3600 Buildings for business and commerce.
Shops, office buildings, banks, etc. Cf. 3205, 3210.

3605 Buildings for transportation and storage.
Railroad stations, Cf. 2480; Warehouses, Cf. 1655, 2718, 3200, etc.

3610 Markets.
Cf. 1660.

3618 Hotels, clubs, etc.

Residences.
Cf. 1430+, 1675+, 3230+, 3380+.

3620 General.

3625 General special.

(3630) Special types.

Houses in-block.
Cf. 1700+, 3235.

3635 General.

3636 Single.
Cf. 1701.

3637 High-cost.
Cf. 1695.

3638 Medium-cost.
Cf. 1696.

3639 Low-cost.
Cf. 1697.

3641 Multiple.

3642 High-cost. High class apartments.
Cf. 1695, 1702.

Elements of city plans (*continued*).
Structures.
Buildings.
Buildings for special uses.
Residences.
Special types.
Houses in-block.
Multiple (*continued*).

3643 Medium-cost.
Cf. 1696.

3644 Low-cost. Tenements.
Cf. 1697, 1703.

Detached houses.
Cf. 1705+, 3240.

3650 General.

3651 Single.
Cf. 1706.

3652 High-cost.
Cf. 1695.

3653 Medium-cost.
Cf. 1696.

3654 Low-cost. Cottages.
Cf. 1697.

3656 Semi-detached.
Cf. 1707.

3658 Medium-cost.
Cf. 1696.

3659 Low-cost.
Cf. 1697.

3669 Other.

Minor buildings.

3670 General.

3675 Shelters, pavilions.
Cf. 2410, 4137, 4345.

3677 Public comfort stations.

3681 Bandstands, etc.

3684 Booths, street-stands.

3687 Greenhouses.
Cf. 4545.

3689 Other.

ELEMENTS OF CITY PLANS (*continued*).
STRUCTURES.
BUILDINGS (*continued*).

Building groups.

Cf. 4550+. Probably better to concentrate material here in 3700+ as under Buildings, unless there is a special reason for doing otherwise.

3700 General.
3705 General special.
3710 Design.

Of groups as wholes. Interrelation of buildings in groups. For design of buildings individually, see 3440+.

(3715) Building groups for special uses.

This section may be expanded to correspond with 3560+.

3720 Administrative, etc.

Cf. 1627, 3565, (4570).

3722 Educational, etc.

Cf. 3570.

3724 Exposition groups.

Cf. (4585).

3728 Recreational, etc.

Cf. 3575.

3739 Other.

BRIDGES. VIADUCTS.

Including monumental aqueducts. Cf. 2138, 2390. 2885, and Library of Congress Class TG (Bridges, etc.). Put here general material on bridges and viaducts considered as structures, *e. g.* bridge design — architectural and engineering considerations. For special treatises on Bridges in connection with transportation, see note under 3790.

3740 General.
3745 General special.
3750 Special aspects.
3760 Legislation.
3765 Special professional considerations.
3770 Form.
3780 Materials.
(3790) (Bridges and viaducts for special uses.) See the special uses: 2270+, Highway bridges; 2262, Footbridges; 2390, Street-railway bridges; 2515+, Railroad bridges.

ELEMENTS OF CITY PLANS (*continued*).
STRUCTURES (*continued*).

3800 DAMS. DIKES. LEVEES.
Cf. 1454, 2615+.

DEFENSIVE WORKS.
Cf. 1480, 2625, 5311.

3810 General.
3812 Fortifications. Forts.
3815 City walls. City gates.
Cf. 1745+.

MINOR STRUCTURES.
Cf. 3670+, Minor buildings.

3820 General.
3825 Walls, fences, gates, etc. Boundary structures.
Cf. 3304.

3830 Monuments, monumental arches, obelisks, etc.
3840 Statues, including monumental statues.
3845 Fountains, basins, etc.
3849 Drinking fountains, troughs.
Cf. (2302).

(3850) (Street name-plates.) See 2292.
3855 Clocks.
Cf. (2298).

3857 Flagpoles, flagstaffs.
3860 Street and park furniture.
Seats, waste cans, etc. Cf. 2290+, Street furniture, and 4141, Park furniture. Material may be grouped according to point of view.

3870 Lighting-fixtures, lamp-posts, electroliers, etc.
Cf. 1476, (2310).

3872 City scales.
3875 Illuminated signs, etc.
3878 Kiosks. Advertising kiosks.
3880 Billboards. Posters. Billboard nuisance.
3882 Shop signs. Commercial street signs.
3885 Other.

ELEMENTS OF CITY PLANS (*continued*).
STRUCTURES (*continued*).

3890 OTHER.

OPEN SPACES, public and quasi-public, other than for traffic.

Cf. 1495, 1730, 4930.

4000 General.
4005 General special.
4010 Special aspects.
4011 Topographic.
4012 Social.
4013 Hygienic.
4014 Economic.
4015 Open spaces as obstructions to traffic.
4016 Effect of open spaces on land values.

Cf. 1563+.

4020 Esthetic.
4021 Preservation of natural landscape.

Cf. 4225.

4022 Types of treatment, formal and informal.
4025 Historic.
4030 Legislation.
4035 Special professional considerations.

PARK SYSTEMS.

Put here only material on park systems as such. For the components of park systems, see 4100+, Parks and reservations; 2209, Parkways; 4300+, Playgrounds.

4040 General.
4055 Special professional considerations.
4060 Park systems for special types of cities.

Cf. subdivisions of 5200+.

4085 Industrial cities.

PARKS AND RESERVATIONS.

Cf. 4935.

4100 General.
4105 General special.
4106 Encroachments on public parks, buildings in parks.

ELEMENTS OF CITY PLANS (*continued*).
OPEN SPACES . . . other than for traffic.
PARKS AND RESERVATIONS.
General special (*continued*).

4108 Private concessions.
4120 Legislation.
Including park regulation.
4125 Special professional considerations.
4126 Data.
4127 Design.
4128 Construction and maintenance.
4129 Cost.
Provision for comfort and pleasure.
4135 General.
4137 Resting places, shelters, etc.
Cf. 3675.
4139 Outdoor eating places, refreshment places.
4141 Park furniture.
Cf. 3860.
Reservations.
4150 General.
4155 General special.
4160 Forest reservations.
Cf. (1725).
Shore reservations. Recreational waterfronts.
Cf. 2640+, Commercial waterfronts.
4170 General.
4175 General special.
4177 Combination with commercial utilization.
4179 Misuse, defacement of shores.
Special situations.
4181 Seashore. Marine parks.
Cf. 1370.
4182 Lake.
Cf. 1370, 1374.
4183 River.
Cf. 1376.

ELEMENTS OF CITY PLANS (*continued*).
OPEN SPACES . . . other than for traffic.
PARKS AND RESERVATIONS.
Reservations.
Shore reservations. Recreational water-fronts.
Special situations (*continued*).

4184 Island.
Cf. 1372.

4190 Types of treatment, formal and informal.
(4195) Provision for special forms of recreation.
(4196) (Drives, shore boulevards.) See 2205+.
4197 Promenades, embankments.
Cf. 2258.

4199 Recreation piers.
4201 Bathing beaches.
4203 Boating facilities.
4205 Winter-sport facilities.
4210 Reservoir reservations, not primarily parks.
Cf. 4510.

4220 Summit reservations, outlooks, etc.
Cf. 1356.

4225 Places containing special natural features.
Cf. 4021.

4230 Places of special historic interest.
Cf. 1276.

4240 Large parks. Country parks.
Small parks, commons, garden squares, neighborhood parks.
Cf. (4450).

4250 General.
4255 Types of treatment.
Public gardens, etc.
Cf. 4940.

4260 General.
4265 Botanical gardens.
4270 Zoölogical parks.
4274 Other.
4275 Open-air theatres. Settings for pageants.

ELEMENTS OF CITY PLANS (*continued*).
OPEN SPACES . . . other than for traffic.
PARKS AND RESERVATIONS (*continued*).

4280 Open-air concert and beer "gardens."
4290 Amusement parks. Street-railway parks.

PLAYGROUNDS, ATHLETIC FIELDS. Provision for special sports.

Cf. Library of Congress, Class GV (Sports and amusements).

4300 General.
Playgrounds.
4310 General.
4315 General special.
4316 Distribution of playgrounds.
4318 As social centers.
4330 Legislation.
4335 Special professional considerations.
4336 Data.
4337 Design.
4338 Construction and maintenance.
4339 Cost.
4345 Shelter buildings.

Cf. 3675.

4350 Swimming pools, wading pools.
4355 Apparatus.
(4360) (Planting.) See 4945
4370 Athletic fields, ball grounds, etc.
4375 Stadiums.
4380 Race-tracks. Speedways.

Cf. 2209, Parkways.

4384 Aviation grounds. Aerodromes.

Cf. 2795.

4385 Provision for other special sports.

4395 DRILL GROUNDS.

SQUARES.

The subheads enclosed in curves are given to complete the classification of squares. Unless for special purposes, it is not intended that material shall be classified here under those subheads, but rather in the places referred to.

4400 General.

ELEMENTS OF CITY PLANS (*continued*).
OPEN SPACES . . . other than for traffic.
SQUARES (*continued*).

4405 General special.
4415 Special professional considerations.
(4420) (Traffic.) See 2197.
(4423) (Station places. Station squares.) See 2485+
4425 Market places. Market squares.
Cf. 1660.
4430 Congregating places, fora, exchange places.
4435 Architectural, Monumental.
Cf. (4575).
(4440) (Business.) See 2233.
(4445) (Residential.) See 2238.
(4450) (Garden.) See 4250+.

CEMETERIES.

For Churchyards and Graveyards, see 4650, Grounds of churches.

4480 General.
4485 General special.
4495 Special professional considerations.

OPEN SPACES DEVOTED TO OPERATION OF SPECIAL MUNICIPAL SERVICES.

Location and design, including location of buildings in area. For construction, engineering features, see Library of Congress, Class TD, (Municipal engineering). For Buildings, see 3568.

4500 General.
4501 General special.
4505 Special professional considerations.
4510 Water-supply areas.
Including reservoirs, basins, filtration plants. Cf. 1456, 4210.
4520 Sewage disposal areas.
Including sewerage plants, sewage disposal plants, sewage farms, filtration beds. Cf. 1464.
4538 Municipal dumps.
Cf. 1472.
4540 Yards, stables, for use of municipal departments. "City yards." Areas for storage of municipal equipment.
E. g. equipment for street cleaning, garbage and rubbish removal.

ELEMENTS OF CITY PLANS (*continued*).

OPEN SPACES DEVOTED TO OPERATION OF SPECIAL MUNICIPAL SERVICES (*continued*).

4545 Municipal nurseries. Greenhouses.

Cf. 3687.

4549 Other.

GROUNDS OF BUILDING GROUPS.

Cf. 3700+. This section need not be used unless desirable for special reasons, but all material grouped in 3700+.

4550 General.
4555 General special.
4565 Special professional considerations.
Special types.
(4570) (Civic centers.) See 1627, 3720.
(4575) (Architectural and monumental squares.) See 4435.
(4585) (Exposition grounds.) See 3724.

GROUNDS OF SINGLE BUILDINGS.

Cf. 3560+. This section need not be used unless desirable for special reasons, but all material grouped in 3560+.

4600 General.
4605 General special.
4615 Special professional considerations.
4620 Special types.

Cf. 3560, Buildings for special uses. Same subdivisions can be used here, with same intervals of numbers: *e. g.*, Churchyards, Graveyards, 4650.

VEGETATION.

Cf. 1715+, 4160, 4545, and Library of Congress Class SB (Horticulture, etc.) and SD (Forestry).

4800 General.
4805 General special.
4810 Special aspects.
4811 Climatic.
4813 Hygienic.
4814 Economic.
4815 Esthetic.
4820 Legislation.

ELEMENTS OF CITY PLANS (*continued*).
VEGETATION (*continued*).
Special professional considerations.

4825 General.

4830 Data. Choice of vegetation.
Vegetation adapted to urban conditions, to particular purposes.

4835 Design. Planting design.

Construction and maintenance.

4840 General.

4842 Cost.

4844 Soil preparation and cultivation. Irrigation. Drainage.
Cf. 1380+.

4846 Protection. Tree guards, railings, etc.

Prevention and mitigation of adverse conditions.

4850 General.

4852 Insect pests, spraying, etc.

4854 Smoke.
Cf. 1449.

4856 Wires.
Cf. 2915.

4858 Underground gas-leaks.

SPECIAL FORMS.

4860 Trees.
Cf. 4885.

4861 Shrubs.
Cf. 4886.

4862 Herbaceous plants.
Cf. 4887.

4863 Turf.
Cf. 4888.

(4870) SPECIAL USES.

STREET PLANTING.
Including roadside improvement. Cf. (2109), (2315).

4875 General.

ELEMENTS OF CITY PLANS (*continued*).
VEGETATION.
SPECIAL USES.
STREET PLANTING (*continued*).

4880 General special.
4882 Selection of trees, etc., in regard to width of streets.
Special forms.
4885 Trees.
Cf. 4860.
4886 Shrubs.
Cf. 4861.
4887 Flower beds.
Cf. 4862.
4888 Turf strips.
Cf. (2109), 4863.
Special uses.
4891 Business streets.
Cf. 2195+.
4892 Residential streets.
Cf. 2235+.
4893 Parkways, boulevards.
Cf. 2207, 2209.

LOT PLANTING.

4900 General.
4901 Dooryard gardens.
Cf. (3330).
4902 Backyard gardens.
Cf. (3331).
4905 Vacant lot gardens.
4907 School gardens.
4909 Other.

BUILDING DECORATION.

4910 General.
4912 Vines.
4914 Window gardens, window boxes, balcony gardens.
4916 Plants (*e. g.* bay trees) in tubs, boxes, pots.
4919 Roof gardens.

Elements of city plans (*continued*).
Vegetation.
Special uses (*continued*).

Planting of open spaces, public and quasi-public, other than for traffic.
Cf. 4000+.

4930 General.
4935 Parks.
Cf. 4100+.
4940 Public gardens.
Cf. 4260+.
4945 Playgrounds.
Cf. (4360).

5000 Other elements.

Types of City Plans.

General only, or collections of works on individual cities illustrating types; other works on individual cities go with 6800+, City planning, by special countries and cities arranged geographically.

5200 General.
5205 General special.

Types distinguished by climate.
Cf. 1330+.

5210 General.
5215 Temperate.
5220 Hot.
5225 Cold.

5230 Types distinguished by Types of population, races, nationalities.
Cf. 1400+.

Types distinguished by relation to topography.
Cf. 1340+.

5250 General.
5255 Coast or shore cities.
Cf. 1370.
5260 Island cities.
Cf. 1372.

Types of city plans (*continued*).

Types distinguished by relation to topography (*continued*).

5265 River cities.
Cf. 1376, 2580+.

5270 Cities on plains.
Cf. 1352.

5280 Cities in valleys.
Cf. 1354.

5285 Cities on sloping sites.
Cf. 1356.

5290 Hilltop cities.
Cf. 1356.

Types distinguished by dominant function.

5300 General.

5305 Governmental.

5310 Military and naval.

5311 Military.
Cf. 3810+.

5313 Naval.
Cf. 2625.

Commercial.

5315 General.

5316 Railroad centers.
Cf. 2450+.

5317 Ports.
Cf. 2550+.

5319 Other.

Industrial.
Cf. 1635, 4085.

5320 General.

5321 Manufacturing.

5322 Mining.

5324 Other.

5325 Educational. University cities.

5330 Residential.
Cf. 1675+.

5331 Suburban cities and towns.
Cf. 1685+, Suburban districts.

5333 Resorts, health and pleasure.

TYPES OF CITY PLANS (*continued*).

TYPES DISTINGUISHED BY DOMINANT FUNCTION (*continued*).

5350 Garden cities. Garden suburbs. Garden villages.

Cf. 582, 1635, 1685. For convenience all Garden City literature may be collected here with geographical arrangement (use same relation of numbers as given in geographical table); or local material may be put with 6800+, City planning, by special countries and cities.

5550 Other.

5552 Utopias, etc.

TYPES DISTINGUISHED BY SIZE OF CITY.

5600 General.

5605 Villages,

To 5000 inhabitants. Cf. 580. Village improvement literature may be collected here.

5610 Small cities.

5000–50,000.

5615 Medium-sized cities.

50,000–100,000.

5620 Large cities.

100,000 to one million.

5625 Largest cities.

One million and over.

TYPES DISTINGUISHED BY STYLE OF CITY PLAN. ARCHITECTURAL CHARACTER OF CITY.

5630 General.

Dominant types of plat.

Cf. 1800+. This section 5635+ is provided particularly to classify graphic material.

Formal.

Cf. 1835+.

5635 General.

5637 Gridiron.

Cf. 1837.

5639 Gridiron and diagonal.

Cf. 1839.

5641 Radius and round-point.

Cf. 1841.

5644 Other.

Types of City Plans (*continued*).

Types distinguished by style of city plan. . . .

Dominant types of plat (*continued*).

Informal.

Cf. 1845+.

5645 General.

5647 Rectilinear.

Cf. 1847.

5649 Curvilinear.

Cf. 1849.

5651 Composite.

Cf. 1851.

5660 Dominant height of construction. Skyscraper cities.

Cf. 3480+.

5680 Dominant building materials.

Brick, wood, etc. Cf. 3510+, 3540+.

5690 Dominant architectural style.

Cf. 3490.

6800 City planning, by special countries and cities
6984 arranged geographically. See Geographical table, and Subarrangement of material under individual countries and cities, following.

GEOGRAPHICAL TABLE.

This table is substantially that given at the end of Class N, of the Library of Congress Classification, there designated as Table II. It is here numbered ready to use in connection with this City Planning Scheme. It will be noted that the gap left after the number assigned to a country (*e. g.* Canada, 6829, Mexico, 6831) can be used for a separate number assigned to works on individual cities of that country if the user so desires. In that case, for example, works on City Planning in Canada would be numbered 6829, while a work on the Plan of Calgary would be numbered 6830 Cal, (*Cal* being the abbreviation formed from the first few letters of the city name). The School of Landscape Architecture uses this method, which for a very small collection might not be worth while.

It was considered best to publish a full geographical table, especially to provide for the arrangement of descriptive material, photographs, and postcards which might be assembled as data from all over the world.

COUNTRY SUBDIVISIONS.

6801 America.
6803 North America.
6805 United States.
By sections.
To be used only if desired. See note under 6827, Cities.
6810 New England.
6811 South.
6814 Central.
6817 West.
6819 Pacific States.
6825 States A–Z.
6827 Cities A–Z.
It is most convenient to arrange material alphabetically by cities as far as possible.
6829 Canada.
6831 Mexico.
6833 Central America.
6835 British Honduras.
6837 Costa Rica.
6839 Guatemala.
6841 Honduras.
6843 Nicaragua.
6845 Salvador

6846 Panama.
6847 West Indies.
6849 Bahamas.
6851 Cuba.
6853 Haiti.
6855 Jamaica.
6857 Porto Rico.
6858 Other.
6859 South America.
6861 Argentine Republic.
6863 Bolivia.
6865 Brazil.
6867 Chile.
6869 Colombia.
6871 Ecuador.
6873 Guiana.
6875 Paraguay.
6877 Peru.
6879 Uruguay.
6881 Venezuela.
6883 Europe.
6885 Great Britain. England.
6887 England. Local.
6889 Scotland.
6891 Ireland.
6893 Wales.
6895 Austria-Hungary.
6897 France.
6899 Germany.
6901 Greece.
6903 Italy.
6905 Netherlands.
6907 Holland.
6909 Belgium. Flanders.
6911 Russia.
6913 Scandinavia.
6915 Denmark.
6917 Iceland.
6919 Norway.
6921 Sweden.

Europe (*continued*).

6923 Spain. Spain and Portugal.
6925 Portugal.
6927 Switzerland.
6929 Turkey.
6931 Other Balkan States.
6933 Bulgaria.
6935 Montenegro.
6937 Rumania.
6939 Servia.
6941 Others.
6943 Asia. The Orient.
6945 Southwestern Asia. Near East. Levant. Asia Minor. Turkey in Asia.
6947 Persia.
6949 Central Asia.
6951 Southern Asia. India. Ceylon.
6953 Indo-China.
6955 French Indo-China.
6957 Indonesia. Malaysia.
6959 Dutch East Indies.
6961 Philippines.
6963 Eastern Asia.
6965 China.
6967 Japan.
6969 Northern Asia. Siberia. Russia in Asia.
6973 Africa.
6975 North.
6977 South.
6979 Australia.
6981 New Zealand.
6983 Pacific Islands.
6984 Special A–Z.

SUBARRANGEMENT OF MATERIAL UNDER INDIVIDUAL COUNTRIES AND CITIES.

It will very often be necessary to subdivide the material accumulated for individual cities. The simplest method of doing this is to use the number for the city followed by the numbers for the topics as given in the general classification scheme. For example, a man living in Chicago has besides the general city-plan reports for Chicago a large collection of clippings and excerpts relating to Chicago. The designation of Chicago in his files is 6827 Chi (see explanation at beginning of geographical table). His reports, which he arranges chronologically, are numbered 6827 Chi 1909, 6827 Chi 1911, 6827 Chi 1912. By taking the letter A to follow 6827 Chi he can designate that detailed material is to be kept separate from the general chronological arrangement. He then looks over the Summary Outline of the Classification, noting the numbers of the topics on which he has material, and proceeds to designate his clippings as follows, *e. g.* those on Business districts, $\frac{\text{6827 Chi}}{\text{A 1630}}$; those on Streets, $\frac{\text{6827 Chi}}{\text{A 2050}}$; those on Playgrounds, $\frac{\text{6827 Chi}}{\text{A 4300}}$; and so on. The alternative method to the one just described would be to boil down and renumber with letters or small numbers the Summary Outline and then to use these designations in the way just described. This could be done by each individual, especially if he wishes to have only a small number of subdivisions.

Although the numbers resulting from the first method are somewhat long, this disadvantage is far outweighed by the following advantages: a man has only one outline to remember, and only one set of numbers; since the subdivisional numbers under an individual city are the same as the numbers on the general subject, there is an automatic cross-reference both ways — a person wanting everything on play-

grounds knows he must look under 4300 both in the general arrangement and under such cities as have been subdivided, while a person studying Boston's playgrounds (6827 Bost A 4300), and wishing to compare these data with general data, can look instantly in 4300; furthermore, material which might appear on any minute topic relating to a given city can be cared for immediately by specific number taken from the fuller scheme.

In case it is desirable to separate material relating to sections of a city from that relating to the city as a whole, this might be placed last and perhaps designated B, so that after general reports and material on special subjects designated *e. g.* 6827 Bost 1912, $\frac{\text{6827 Bost}}{\text{A 4300}}$, there would be *e. g.* $\frac{\text{6827Bost}}{\text{B. Rox}}$, for the Roxbury section of Boston.

The above suggestions serve to indicate the possible treatment of a large bulk of local material. The particular purpose for which the material is to be used will of course determine the amount and character of subdivision that will be worth while.

ALPHABETIC SUBJECT INDEX TO CLASSIFICATION

References are to numbers of topics in the Scheme

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  Creation or empowering, 712–716.
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Administrative buildings, 3565.
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  Collection and presentation of data, 824.
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Advertising, Public, (City planning movement), 540–548.
Advertising kiosks, 3878.
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Aerial views, 1244.
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Agricultural belts, 1720.
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(Agricultural occupancy of blocks), (3244).
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Architectural squares, 4435, (4575).
Architectural style, 3490.
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  Area, Proportion to street area, 2150.
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  Dimensions, 3045.
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  Shape, 3050.
  Size, 3045.
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  Grounds, 4550–4585.
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